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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/638,401	08/12/2003	Hirofumi Kawai	241422US2	5469	
22850 75	590 04/14/2004		EXAMINER		
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			KENNEDY, JENNIFER M		
			ART UNIT	PAPER NUMBER	
ALEXANDRIA	4, VA 22314		2812		
			DATE MAILED: 04/14/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No. Applicant(s)				
		10/638,401 KAWAI, HIROFUMI		1 I		
		Examiner	Art Unit	rt Unit		
		Jennifer M. Kennedy	2812	,pw		
The M. Period for Reply	AILING DATE of this communication ap	pears on the cover sheet with	the correspondence ad	dress		
THE MAILING - Extensions of time after SIX (6) MO - If the period for roughly with the series of t	ED STATUTORY PERIOD FOR REPLES DATE OF THIS COMMUNICATION. The may be available under the provisions of 37 CFR 1.1 NTHS from the mailing date of this communication. The specified above is less than thirty (30) days, a repely is specified above, the maximum statutory period within the set or extended period for reply will, by statuted by the Office later than three months after the mailing rm adjustment. See 37 CFR 1.704(b).	I36(a). In no event, however, may a reply within the statutory minimum of thirty (will apply and will expire SIX (6) MONTH, a cause the application to become ABA	ly be timely filed 30) days will be considered timely 15 from the mailing date of this of	ommunication.		
Status						
1)⊠ Respon	sive to communication(s) filed on 26 J	anuary 2004.				
· <u> </u>	This action is FINAL . 2b) This action is non-final.					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of C	laims					
4a) Of th 5) ☐ Claim(s 6) ☐ Claim(s 7) ☐ Claim(s) <u>1-19</u> is/are pending in the application ne above claim(s) is/are withdra) is/are allowed.) is/are rejected.) is/are objected to.) <u>1-19</u> are subject to restriction and/or	wn from consideration.				
Application Pape	ers					
9)∐ The spe	cification is objected to by the Examine	er.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applican	t may not request that any objection to the	drawing(s) be held in abeyance	e. See 37 CFR 1.85(a).			
	ment drawing sheet(s) including the correc n or declaration is objected to by the E	, ,,,	•	, ,		
Priority under 35	U.S.C. § 119					
a)	edgment is made of a claim for foreign o) Some * c) None of: ertified copies of the priority document ertified copies of the priority document opies of the certified copies of the priority document opies of the certified copies of the priority document opies of the certified copies of the priority document opies of the certified copies of the priority document opies of the certified copies of the priority document opies.	s have been received. Is have been received in Apprix documents have been received in CPCT Rule 17.2(a)).	olication No eceived in this National	Stage		
Attachment(s)						
	ences Cited (PTO-892)		mmary (PTO-413)			
	person's Patent Drawing Review (PTO-948) closure Statement(s) (PTO-1449 or PTO/SB/08) il Date		Mail Date rmal Patent Application (PTC) .)-152)		

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-6 and 11-16, drawn to a semiconductor device, classified in class 257, subclass 183+.
- II. Claims 7-10 and 17-19, drawn to the method of making a semiconductor device, classified in class 438, subclass 236+.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)).

A "product-by-process" claim is one in which the product is defined at least in part in terms of the method or process by which it is made. *Atlantic Thermoplastics Co. Inc. v. Faytex Corp.*, 23 USPQ2d 1481, 1488 (Fed. Cir 1992). Although it is noted that claim(s) 11-16 is/are product-by-process claims, product-by-process claims are directed to the product no matter how actually made. *In re Taylor*, 149 USPQ 615, 617 (CCPA 1966). Consequently, it is the patentability of the final product, and not the patentability of the process, that must be determined in a product-by-process claim. *In re Thorpe*, 227 USPQ 964, 966 (CAFC 1985), *Ex parte Edwards* 231 USPQ 981, 983

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(BdPatApp&Int 1986. Thus, in the instant case the device could be made by a materially different process such as doping the second layer by in-situ doping rather than forming the second layer and then diffusing dopants from the fourth layer into the second layer. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

A telephone call was made to Joseph A. Scafetta Jr. on April 1, 2004 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer M. Kennedy whose telephone number is (571) 272-1672. The examiner can normally be reached on Mon.-Fri. 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling can be reached on (571) 272-1679. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Junif M. Kennedy
Patent Examiner
Art Unit 2812